

THE WESTERN FARM LEADER

CO-OPERATION

PUBLIC AFFAIRS

SOCIAL PROGRESS

Vol. 17 No. 6

CALGARY, ALBERTA, FRIDAY, APRIL 4th, 1952
Authorized as Second Class Mail, Post Office Department, Ottawa

5c a copy — \$1.00 a year.

END OF PROVINCIAL EMBARGOES IS NOW IN SIGHT

IMPORTANT 2-DAY CONFERENCE HELD ON MAJOR ISSUES

**Heads of Alberta Grain Co-ops
For International Wheat
Council Meeting**

ON ADVISORY BODY

**Howe Gives Information on
Policy in Respect to
Handling Wet Grain**

OTTAWA, April 2nd—Clearing of interprovincial livestock and meat roadblocks will it is expected be achieved at the two-day Federal-Agricultural Conference here, on the basis of the Federal government offering a floor price on beef and agreeing to buy and control meat surpluses, and the Provinces agreeing to lift their embargoes and restrictions.

By M. McDUGALL, Press Gallery
Leader Correspondent

OTTAWA, April 2nd. — The meeting being held here this week for two days, April 2nd and 3rd, when the Federal Minister of Agriculture will meet with the corresponding members of Provincial Cabinets, has been brought together to review all matters in connection with the foot-and-mouth outbreak and in particular to discuss Provincial and Federal embargoes. The marketing situation holds a prominent place on the agenda, and it of course is closely related to the embargoes, which to some extent at least have been eased, but which may come nearer to liquidation when there is free and frank discussion among the delegates.

Sharp Fear Dissipated

Certainly the sharp fear, caused by the discovery of the disease so foreign to Canada's farming experience, is being dissipated as five to six weeks have passed since the last case of infection was discovered. The hope that is being daily strengthened doesn't mean any relaxation of caution, but as it stands now it looks as if the disease has been crushed as far as its spread is concerned, and may have been completely stamped out with the slaughter of the animals and general disinfection.

At London Meeting

At the International Wheat Council meeting which is being held in London on April 17th and days following, the delegates will discuss terms of agreement for the extension of the International Wheat Agreement which expires July 31, 1953. Canada's delegation will consist of M. W. Sharp, Associate Deputy Minister of Trade and Commerce, with two alternate delegates, W. C. McNamara, Assistant Chief Commissioner of the Canadian Wheat Board, and C. F. Wilson, Director of the Wheat and Grain Division of the Department of Trade and Com-

Co-op Wool Growers Obtain Record Returns

It's Malan vs. Malan in Troubled South Africa



PRIME MINISTER MALAN



"SAILOR" MALAN

Faced by the judgment of the Supreme Court of South Africa that one of his discriminatory racial laws is unconstitutional, Premier Daniel Malan now proposes to introduce legislation to nullify the effect of the judgment. The constitution provides that a two-thirds majority is necessary in cases such as that of the bill (passed by bare majority only) in question. The measure deprived "colored" people (in South Africa this means those of mixed blood) of long enjoyed franchise rights in the Cape Province, giving them a lowered voting status.

While the struggle against the Prime Minister is intense in Parliament, South Africa and the world have been electrified by the mass rallies against racial discrimination headed by A. G. Malan (known as "Sailor" Malan, though he is a veteran of the Royal Air Force), whose "Torch Commandos" have brought together large crowds. Supporters of the Government tried to break up a demonstration at Pretoria with tear gas, rotten eggs and garbage, but police intervened. "Sailor" Malan told the demonstrators that the Prime Minister's attempt to lessen the voting rights of colored persons had "dishonored the good name of the white man in South Africa." The two Malans are not related to one another.

Will Discontinue

OTTAWA, Ont.—Mr. Gardiner announced today that premiums on heavy weight hogs will be discontinued April 19th. After that premiums will revert to \$2 Grade A and \$1 Grade B1, grade carcasses standard grade weight.

merce. It is important to note that accompanying the delegates as advisers and representing the grain producers of Canada will be Hon. J. E. Brownlee, Q.C., President of United Grain Growers, Ltd.; Wes Coates, Director of the Saskatchewan Farmers' Union; W. J. Parker, President of the Manitoba Wheat Pool; Ben S. Plumer, Chairman of the Alberta Wheat Pool Board, and J. H. Wesson, President of the Saskatchewan Wheat Pool.

Hopeful re Grain Drying

The statement made quite recently by Rt. Hon. C. D. Howe, Minister of Trade and Commerce, on the question of damp grain, is no doubt already pretty well known; but it is of such current interest and importance that it might be repeated here. Being asked a question on the subject in the House of Commons, he said that

Considering Plan for Loans to Assist Young Farmers Stay on Land

In answer to Elmer Roper, C.C.F. leader in the Alberta Legislature, who suggested that the Self-Liquidating Projects Act be extended to cover loans to young men who wish to remain on the land but who are not financially able to do so, Premier Manning told the members this week that the Government is studying the question of granting loans to young farmers for this purpose; and also farmers clearing new land and facing "considerable capital expenditures." Under the Act referred to the Province makes loans at 2 per cent to municipalities for capital construction for such things as utilities.

arrangements have been made for the drying of a substantial quantity of damp grain in Buffalo. He also said the capacity for drying in Duluth is being rapidly filled and drying within Canada is going on rapidly.

Mr. Howe said that quite recently the Wheat Board informed him that the situation was well in hand and

(Continued on Page 5)

PRICES HIGHEST TO MEMBERS IN HISTORY OF CO-OP

**Though All-Canadian Wool
Production Down, Co-op
Handlings Up 8%**

PRICE FLUCTUATIONS

**Forward Selling Resulted In
Large Sales When Markets
Strongest**

(Special to The Western Farm Leader)

TORONTO, Ont. — Although wool production decreased by 9 per cent in Canada in 1951, total receipts at the grading warehouses of Canadian Co-operative Wool Growers showed an increase of 8 per cent over those of the previous season. The Co-operative handled more than 75 per cent of the entire volume of 1951 production passing through Government Registered Warehouses, 60 per cent originating in Western Canada and 40 per cent in the East. Returns made to shippers were the highest in the history of the Organization.

These figures, which, in the words of General Manager George E. O'Brien, justified the appraisal of 1951 as "The Year of Years" for Canadian Co-operative Wool Growers, Ltd., were presented at the Annual Meeting of the Co-operative held in the Royal York Hotel here on March 27th. The satisfactory results of the year's operations were received with expressions of much gratification by members of the assembled delegation.

Total assets were announced as being \$785,829.63, and an operating surplus of \$212,015.49 for the year ending February 29th, 1952 was appropriated as follows: 1. Taxes on Income, \$22,000.00; 2. Interest on Capital Stock, \$6,472.50; 3. Patronage Dividends, \$164,042.99; 4. Pension Fund Adjustments, \$19,500.00.

Highest Dollar Level

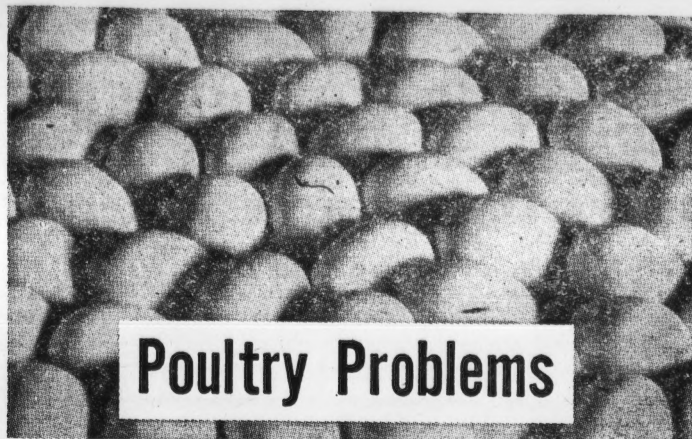
With record advances, record prices, record declines, and with publicity given to wool in the press and in

(Continued on Page 9)



Central Alberta Dairy Pool Section

SLOGAN FOR TODAY: "Test and Weigh and Keep the Cows That Pay"



Poultry Problems

Get Top Dollars For Your Eggs

WE are disturbed as merchandisers, and no doubt our poultry and egg patrons are equally if not more disturbed, by the sharp decline in the price of certain grades of eggs.

There is now a 13 cents spread per dozen between A and B eggs. The reason for this abnormal spread is the large number of eggs being received by all egg stations, especially in the south part of the Province, which are grading B or below.

Why is this, the producer is asking; and to answer this question, at least in part, we have outlined below certain rules which, if followed, will reduce very considerably your low grade eggs.

To Get the Most

To get the most for your eggs, you have to produce the kind of eggs consumers want, and then you have to take good care of the eggs after they're laid.

Consumers want eggs that have clean, whole shells; pale yellow yolks; firm whites. When you break a good egg onto a plate, the white holds together, and the yolk stands up high.

Good eggs start in the hen house. Too much green feed makes dark yolks. Five pounds a

day is enough for 100 birds that are kept in the house, provided you feed a good grade of laying mash fortified with vitamins.

Keep your litter dry, and the nests clean. Litter won't get soggy if you add lime occasionally (use a pound of hydrated lime for every 6 square feet of floor space), and stir the litter.

Ideas That Will Help

Once you get good eggs, keep them that way. These ideas will help:

1. Gather eggs at least twice a day — and oftener in summer.
2. Use clean buckets — or preferably wire baskets (eggs cool quicker in them).
3. Keep your eggs in a cool, humid room. A cellar egg room, a root house, or a heavily-insulated room in the laying house is best. Keep your cases, flats, and fillers in the same room.
4. Clean your eggs before packing. Either buff them or wash them by a method your buyer approves (not all do).

To Wash Eggs

Here's an easy way to wash eggs: Use a clean galvanized ash can. Put in enough warm water (140 to 160 degrees) to cover a basket of eggs. Put in a teaspoon full of detergent washing powder (not ordinary soap) for each gallon of water. Dip a basketful of eggs and pull right out. Dip again in five minutes. Spray the eggs with warm water from a spray nozzle on a hose.

The wash water is good for 20 to 30 baskets of eggs, if you have that many to wash at once. But start with fresh, warm water each time you wash.

5. Pack the eggs big end up and deliver your eggs at least once a week, or better still, twice a week, especially in hot weather.

What It All Means

Egg and poultry dollars have bought a lot of comfort and conveniences on farms where poultry is just a side line; and made good livings for many who depend on poultry for most of their income.

Poultry can do it again this year for folks who keep costs down, production and quality up.

TORONTO. — At the last general council meeting of UNESCO, in Paris, representatives of thirty nations approved a grant for studying Canada's National Farm Radio Forum.

If it's true that what you don't know won't hurt you, then life for most people should be pretty painless. — Hamilton Spectator.

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DON'T START WITH CHEAP CHICKS

Cheap chicks can run your costs sky-high. They can hike your death losses and lower your egg production.

Here are three good guides to follow in buying chicks:

(1) Buy only pullorum-clean chicks. (2) Buy only from a reputable hatcheryman. (3) Buy only chicks from high-producing stock. The average hen lays about 158 eggs per year. It takes 200 eggs per hen per year to make fair profits. The breeding stock behind your chicks should be at least that good.



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CENTRAL ALBERTA DAIRY POOL SECTION

SANITIZED UTENSILS FOR TOP QUALITY

By W. H. HASKELL

THE "How?" of cleaning equipment used in milk production is frequently just as little understood as the "Why". Important advancements have been made in cleaning knowledge, both in products and application. In the place of a few basic chemicals of decidedly limited application used in former years, there has been developed by research chemists a formidable array of basic materials and, of extreme importance, a better understanding of their usage.

More Scientific Approach

Complex phosphates, wetting agents, acid types compounds, chelating agents, pH standardization and other chemical adaptations have made possible a more scientific approach to efficient cleaning and sanitizing.

The cleaning job on the average milk producing farm is the simplest and easiest to accomplish of any similar operation in the entire dairy industry. This is due to the fact that heat is never applied to the milk or cream. Heat influences the condition of soil in proportion to the amount of heat and length of time applied; age and dryness of deposits also have an effect on the tenacity of soil; but there should be no old dry soil present and there won't be, if the "How?" of cleaning is better understood.

How Term "Soil" Is Used

Soil is the term used to identify any materials such as dirt, deposits, residues or anything which must be removed from a surface during a cleaning operation. In the dairy industry, the soil mainly consists of constituents of milk plus those of water. The remainder, on milk producing farms, consists of bacteria, mold and yeast growths, air-borne dust, cow hair, transient soil from workers, soil from equipment and ingredients from cleaners

In the first article on Sanitized Utensils, which appeared in our last issue, the "Why?" of Sanitation was dealt with. The second and concluding article, on this page, discusses the "How?" of sanitation.

and sanitizers. Thus it is obvious that soil on milk producing equipment may contain many things. The tenacity of the soil, however, is not increased by heat used in processing.

Water itself will dissolve sugars and certain salts usually present in deposits on equipment: animal and vegetable fats are best solubilized by alkaline solutions, while limestone and other mineral deposits are soluble in acidity type detergents.

Chemistry — Not Sales Talk

The solubility of the various components of so-called "milkstone" is therefore a matter of chemistry, not sales-talk. The chemical demand in the cleaning of dairy farm equipment is for the alternate use of alkaline and organic acid type detergents, on a day by day basis, to meet the cleaning necessities of the fats, proteins, etc., which are best erased by alkaline type balanced cleaners and the mineral deposits which are most effectively removed by balanced acid type detergents.

Soil removed from equipment during the washing operation must be given additional conditioning in the water itself. To insure this continuing soil treatment, many specific chemicals are used in a balanced chemical cleaner. Properties of emulsification, saponification, wetting, penetration, dispersion, suspension, peptizing, rinsing, water softening and dissolving are all water conditioning properties chemically provided in a properly balanced cleaner either alkaline or acid. Each property is important and all should be employed.

Removing Mineral Deposits

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ment are practically impossible to remove, or prevent, unless acid cleaners are regularly employed. Removing "milk stone" deposits from equipment is wrong — wrong because such deposits should not be there. The presence of mineral deposits on equipment usually indicates the use of an inefficient cleaning program.

(Continued on Page 13)

New Weed-Killer May Be Best Yet Developed

A new weed-killer, known as CMU, is believed to be destructive to more weeds and grasses than any yet developed, state officials of Canadian Industries Limited. It will be used this year on railway roadbeds, etc. and further tests are being made to determine its possibilities in farming.

Distribution of U.S. Income Shown by Census Bureau

According to the U.S. Census Bureau, the top fifth of the population of the United States gets 47 per cent of the national income before taxes; the second fifth 24 per cent; the third 17 per cent; the fourth 9 per cent, the remainder 3 per cent. To try to equalize this distribution, The New Republic remarks, is likely to be denounced in influential quarters as "socialism".

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| 750 x 16 | 700 x 16 |
| 670 x 16 | 825 x 20 |
| 650 x 16 | 900 x 20 |
| 700 x 16 | 1200 x 20 |
| 500 x 16 | 1000 x 20 |
| 760 x 16 | 750 x 15 |
| 750 x 18 | Tractor |
| 840 x 15 | 700 x 20 |
| 850 x 15 | 1275 x 24 |
| 670 x 15 | 11 x 38 |
| 700 x 15 | 10 x 24 |
| 760 x 15 | 12 x 26 |
| 710 x 15 | 1125 x 24 |
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Published First and Third Fridays in the interest
of the Organized Farm Movement

SUBSCRIPTIONS
One Year \$1.00
Two Years \$1.50
Three Years \$2.00
Single Copies 5c

PUBLISHERS:
W. NORMAN SMITH, Editor
A. M. TURNER SMITH, Advertising Manager
U.F.A. Building, Calgary, Alberta

EASTERN REPRESENTATIVE:
Hodgson Publications, 588 Mt. Pleasant Rd., Toronto—HU3831
VANCOUVER REPRESENTATIVE:
F. A. Dunlop, 110 Shelly Building — Pacific 2527

ADVERTISING
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CALGARY, ALBERTA, FRIDAY, APRIL 4th, 1952

No. 6

TIME TO BE FIRM IS NOW

When last we went to press, it seemed probable that the obstruction of inter-provincial trade by British Columbia and some other Provinces was about to end.

The hopes then entertained proved unwarranted. In modified form embargoes continue (up to our press time again). The British Columbia ban has been eased to permit of imports of cattle from the "Edmonton area" only. Representations have been made at Ottawa in behalf of the C.F.A. and Alberta Government. News of the outcome may have been given over the air before these lines are read.

There seems to have been a disposition at Ottawa to treat with tolerance plain violations of constitutional rights by Provincial Governments — to think in terms of "negotiation" when, in the view of high constitutional authorities, there is really nothing to negotiate.

Perhaps a tactful approach was warranted in the beginning, in the expectation of quick action. But, in any event, for the Federal Government to leave unchallenged the usurpation of authority by any of the Provinces would be to invite serious trouble in the future.

Henry E. Spencer of Comox, who served the constituency of Battle River with distinction in the House of Commons as a U.F.A. member from 1921 to 1935, stresses the importance of this issue in the letter that appears on another page.

"If Provincial governments or any one of them," Mr. Spencer points out, "can interfere in the present case (where responsibility lies entirely with the Federal Government), they can do so in a dozen different ways."

It is quite clear that neglect of a Provincial challenge in one case may lead to defiance in another and another. British Columbia's partial embargo against our cattle serves as a sort of protective tariff for one group of producers. Perhaps, on some other occasion, a body of Alberta producers may want similar protection, and a merry war between the Provinces may be started.

We think, with Mr. Spencer, that in the interest of all Canadians and of every Province, the Federal Government should be quite firm and quite precise in insisting upon the enforcement of its rights NOW.

DISTANT LANDS AND FOLKS AT HOME

In an important article in this issue, Mr. Priestley completes his survey of the proceedings and decisions of the recent Annual Congress of the Co-operative Union of Canada.

The delegates, Mr. Priestley advises us, were deeply conscious of the need to perfect "a national framework within which the co-operative business organizations and their individual members can work out more and more efficiently the basic economic ends for which they have entered organization together." But they were not content to concentrate upon their own internal organizational affairs alone.

LOST HORIZONS

The paths that so precariously wind

Through sombre shadows of the world's unrest
Grow hour by hour more difficult to find,

As torches that once flamed to light our quest
For peace and freedom flicker and grow dim.

We stumble on, beset by haunting fear
That through some wanton deed, or madman's
whim,

The last elusive hope may disappear.

To this sad pass mankind himself has brought

The splendid promise of the secrets won
From nature, and the wondrous knowledge fraught

With power to see a great new age begun.

To random winds of chance we now are thrown

Tomorrow's courses utterly unknown.

ISA GRINDLAY JACKSON

"The delegates have become increasingly seized," says Mr. Priestley, "with the conviction that human destiny — and that means the lives and well-being of the folks at home — is affected deeply and permanently by men and movements in fields that may seem to some to be far away."

No doubt Mr. Pearson's address, among others, did much to strengthen this conviction; and an article by the British scientist, Ritchie Calder, which we had the privilege of reading recently, similarly lends support to all those who see in such projects as "the Colombo Plan" the means to a more ordered world — in which our own security would be ensured.

Mr. Calder writes in *The New Statesman and Nation* of the work of the World Health Organization in a number of Asian countries. "Just as the Panama Canal could not have been built but for Gorgas," he writes, "so the resources of undeveloped countries cannot be effectively used until the deterrents of disease have been removed. But just as malarial resources cannot be developed in the presence of disease, neither can human resources."

"People, lethargic, crushed, crippled and prematurely dying cannot help themselves, feed themselves or raise themselves. Their innate intelligence and enterprise is stifled by a suffocating preoccupation with misery. Remove it, and it is like stripping away the jungle and revealing the fertile soil."

"I have seen plenty of proofs in South-East Asia. Nothing could be more encouraging than the transformation which has come in the lives of Javanese peasants freed from yaws, which disfigures, cripples and debilitates millions. It can be cured with one or two or, at the most, three injections — for the cost of a machine-gun bullet. And when it goes the whole outlook of a people changes. Women become house-proud; children become puppy-happy; men get more from their fields; even the cattle are sleeker, because they are better cared for. Spontaneously, they begin to think for themselves and do things for themselves. They start organizing social activities, improving their irrigation systems, learning to read and write. They have become human beings instead of mangy animals."

SMACKS OF INTOLERANCE

"Any party or individual member (of Parliament) has a right to express misgivings as to the results of policies to which the Government is committed without being accused of rocking the boat. A Government that suggests, however obliquely, that its critics are being disloyal, comes perilously close to the mentality of the type of regimes opposing NATO and all it stands for. For such an attitude smacks of intolerance of criticism. . . . No responsible political leader has suggested that Canadians should relax their efforts or spend less in the cause of peace. Differences of view exist as to the emphasis that should be placed on non-military measures for strengthening free societies. They should be debated on their merits." — *Ottawa Citizen*.

Ask Assembly for Marketing Legislation

"OUR whole effort is to secure more stability for the producers and for the industry as a whole," declared Roy C. Marler, President of the Alberta Federation of Agriculture, when he appeared before a meeting of members of the Provincial Legislature on March 19th, to urge the enactment of workable legislation to enable producers of farm products to set up their own commodity marketing boards.

Closely Reasoned Presentation

In a closely reasoned presentation, in which past unsuccessful efforts to obtain desired action were reviewed, Mr. Marler strongly urged that legislation be adopted without further delay. K. Kapler, President of Alberta Poultry Producers, Ltd., outlined the functions of the proposed marketing plan.

Mr. Marler, speaking on behalf of member groups of the Federation, asked that either new legislation or an amendment to an existing Act be adopted, in order that an effort might be made to do a better job marketing "one, or not more than two or three products, on an experimental basis."

Goes Back to 1949

Mr. Marler surveyed developments from the early part of 1949, when it became evident that there could be little hope of renewing overseas contracts for various foods. In that year the organized poultry producers across Canada, represented by the Canadian Federation of Agriculture, held their first conference in Ottawa in July, when nine Provinces were represented. Provincial Federations accepted responsibility for organization in their respective Provinces, with a view to obtaining legislation which would permit any group of producers of one or more commodities to market their products through a Provincial commodity marketing board.

In Alberta a committee was immediately set up, of members of member poultry groups, who requested the Deputy Ministers of Agriculture and of Trade and Industry, and the General Managers of the Central Alberta Dairy Pool and Alberta Poultry Producers, to act as advisors. Following the work of this committee, the Federation met the Alberta Government on December 1st, 1949, requesting amendments to Statute 253 (the Alberta Marketing Act of 1939), to enable it to set up commodity marketing

boards experimentally.

"We stressed the need of some immediate procedure that would stabilize and safeguard, not only the producers' but also the consumers' position from violent fluctuations and general instability," said Mr. Marler.

Request Not Met

"The Government did not honor our request . . . it shortly came to pass that our anticipations had been justified . . ."

"In late December and early January, 1950, the price of eggs on some markets dropped as much as 45 cents in twelve days or so. Again, from Nov. 23rd, 1951, the price of eggs dropped 14 cents in one week . . . Producers feel that these fluctuations arise as a result of conditions which no one can avoid under present marketing practices."

During the Legislative session of 1950, the Alberta Government was consulted, at various times without success in obtaining such legislation as was regarded as necessary. No undertaking could be obtained from the Government in 1951, either, but at short notice the privilege of appearing before the Agricultural Committee of the Legislature was granted.

All Except Alberta and Quebec

"We have been somewhat at a loss to understand why it has been so difficult for us to obtain the goodwill of the Government and Legislature," said Mr. Marler, for legislation to enable producers to do things for themselves. "We have information that the Provinces of Canada, with the exception of Quebec and Alberta, have adequate legislation, and Boards are operating in five of the nine older Provinces."

Pointing out that prices of oats and barley had risen, under Wheat Board Marketing, Mr. Marler asked: "What has happened to beef, pork, eggs, butter, and grain prices under surplus conditions in the past, and at present, when not marketed through a board?"

OTTAWA LETTER (Continued from Page 1)

expressed the hope that all damp grain which is not yet delivered could be delivered to the Wheat Board at least by the first of May.

Congested points, he stated, are being rapidly cleared and the Board is of the opinion that the damp grain it is receiving and has received can be handled without serious loss and perhaps without any loss.

Where Government Responsibility Ends

In connection with the harvesting of grain still in the fields, Mr. Howe made a statement, which he has indicated before, and which is of the greatest importance. He stated that the Government had accepted responsibility for about 250 million bushels of damp and tough grain which has already been harvested. He reiterated a previous statement that the Government cannot accept any responsibility whatever for wheat that is harvested tough or damp from now on.

"I have said that any producer, by exercising patience, can harvest his wheat dry. It is necessary for him to do that; otherwise the Government cannot guarantee that he will be able to deliver damp grain to the country elevators," the Minister said.

Delegation From Farmers' Unions Voices Requests

An immediate floor of 28½ cents on top quality beef and proportionate prices on other grades was asked last week of the Federal Government at Ottawa by a delegation from the prairie farmers' unions, headed by J. L. Phelps, President of the Saskatchewan Farmers' Union, following conferences in which President Henry Young of the FUA joined.

The delegation asked the Government to make a direct appeal to Provinces to lift their embargoes on livestock and meat shipments, and, if this fails, to use constitutional powers to break the restrictions. Full investigation into "apparent laxity" in the failure to identify foot-and-mouth disease in Saskatchewan for some months was asked, and safeguarding measures for the future were suggested.

The delegation asked that the domestic wheat price be separated from the International Wheat Agreement price, and be based on parity; IWA floor price should be \$1.85 and ceiling \$2.35, with carrying charges extra.

Previously a delegation of several hundreds from the Interprovincial Farmers' Union Council met members of the Board of Grain Commissioners in Winnipeg, seeking specific information on grain overages, charging that various elevator companies had been allowed to shortweigh farmers to the extent of 9,982,016 bushels. Amendments to the Canada Grain Act to deal with money derived from overages was asked. Representation of farmers on the Board at the policy level was asked.

CORRESPONDENCE

ACTING BEYOND RIGHTS

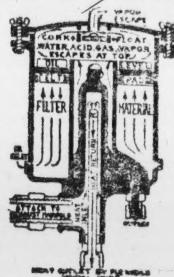
Editor, The Western Farm Leader:

It did me good to read your editorial in regard to the contest of "rights" between the Federal and Provincial Governments re the control of foot-and-mouth disease. As soon as the first Province began to interfere with inter-provincial trade, I remarked that they were acting beyond their rights.

As you say, if we are going to be a Federation we must recognize the rights of the Federal Government. If Provincial Governments or any one of them can interfere in the present case (where responsibility lies entirely with the Federal Government), they can do so in a dozen different ways. I cannot understand why the Minister of Agriculture, the Rt. Hon. Mr. Gardiner, did not challenge the various Provinces.

HENRY E. SPENCER.

Comox, B.C.



END COSTLY REPAIRS with RECLAIMO

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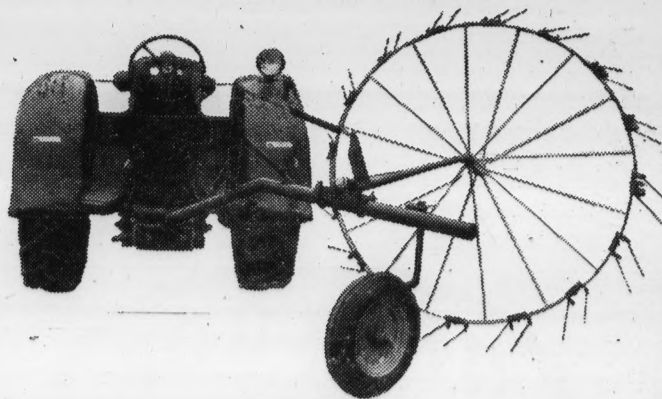
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This is the proud record of U.F.A. Co-op, United Farmers of Alberta Co-operative Limited. As patrons of the co-operative, we know you are proud of the part you have played in making this record possible.

The management and Board of Directors, to whom you have entrusted the job of operating your co-op, feel real satisfaction with this success story too. After all, you would not have provided such steady patronage if you had not been well satisfied with the quality of the goods supplied and the service given.

The policy of U.F.A. Co-op is one of steady expansion to provide service and quality merchandise to communities which believe in the co-operative way of business. The continued success of the co-operative appears sure. 1952 should be an outstanding year.



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Canada's Aid to Under-Developed Countries

Minister Describes Assistance Programs

DESCRIBING in some detail Canada's plans, now being carried out in increasing measure, to provide economic and technical aid to under-developed countries, Hon. Lester B. Pearson, Minister of External Affairs, told the Annual Congress of the Co-operative Union of Canada that the whole conception of such aid, and our participation in it would have been inconceivable as recently as the 1930's.

Experiment in World Relations

"I think we would have decided then," he said, "that for both economic and practical reasons such schemes were impossible. In participating in these programs we have embarked upon an experiment in international relations motivated by political and moral considerations which are both new and demanding. The present modest rate and scale of these programs is determined not only by our ability to make the assistance available, but also by the ability of the receiving countries to absorb it and to put it to best use."

New and Unique

The two programs to which the Canadian Government is contributing, Mr. Pearson pointed out, are new and unique. They are the United Nations Expanded Technical Assistance Program and the Colombo Plan. (The amounts devoted to the programs described by Mr. Pearson are of course very small indeed in comparison to the amounts required for defence programs.)

U.N. Technical Assistance Program

To the first and most important of these programs, Canada, said Mr. Pearson, contributed \$850,000 for the first 18 months of its operation, and has offered to contribute at least \$750,000 and up to \$850,000 (depending upon the amounts offered by other contributing countries) towards the total objective of the program, \$20,000,000.

The program is operated by the Technical Assistance Administration of U.N., of which Dr. H. L. Keenleyside, (former Deputy Minister of Resources and Development of Canada) is Director-General; and by specialized agencies such as the Food and Agriculture Organization and the World Health Organization.

Giving Training in Canada

"Since the beginning of the program in July, 1950," the Minister said, "we have received 46 U.N. Fellows from underdeveloped countries for special training in Canada, in addition to many directed to us by the Specialized Agencies. We have completed training arrangements for an additional twenty-seven amongst them a young Haitian whose training in co-operatives is being arranged by your National Office.

"Canadians are also serving abroad in the field under the U.N. programs: many of them in Asian countries. Professor Frank Scott of McGill University has recently gone to Burma to be resident co-ordinator of United Nations technical assistance activities in that country. George P. Melrose, Deputy Minister of Lands for the Province of British Columbia, served for a time as Chief of the United Nations Technical Assistance Mission to El Salvador.

Other Canadians Serving Abroad

"Eight Canadians are at present serving abroad under the technical assistance program of the International Labor Organization. One of the Canadians serving abroad with the FAO is Professor A. E. Hardy of

the Department of Agricultural Engineering of the University of Saskatchewan. He is advising the Government of Ceylon on how to cope with its problem of agricultural development. There is a constant demand for the services of additional experts from our Federal and Provincial Government departments, from Canadian universities and from private professions.

Purpose of Colombo Plan

"Because we realize that the needs of the peoples of South and South-East Asia for technical assistance are particularly urgent, we helped to establish and are now participating in the Colombo Program for Technical Co-operation. It is not possible for the Asian countries to carry out their plans for economic development without trained manpower and without the benefit of technical advice from the West. In addition, therefore, to the \$25,000,000 the Canadian Government contributed to the Colombo Plan for Economic Development in the area for the year 1951-52 and to the same amount for 1952-53 for which Parliamentary approval will be sought, the Government secured Parliamentary authorization for an appropriation of \$400,000 to the technical co-operation program for South and South-East Asia for each of the past two fiscal years and is recommending a similar contribution for 1952-53.

"Many of you may have come in contact with some of the 50 trainees chiefly from India and Pakistan, who have already come to Canada under this scheme. In addition during this past year we have received three technical missions composed of senior officials from India, Pakistan and Ceylon. Some of the Indian members of the agricultural mission were particularly interested in the agricultural co-operative movement in this country and hoped to apply some of what they had learned from members of the Co-operative Union of Canada when they returned to their jobs at home."

Should Be Read by Every Progressive Farmer

BEAVER LODGE, Alta.—A veritable textbook on the subject of soil fertility, that should be in the hands of every progressive farmer (state officials of Beaver Lodge Experimental Station) is "Manures, Fertilizers and Soil Amendments," prepared by the Science Service and Experimental Farms Service of the Dominion Department of Agriculture. The need for greater understanding of principles of soil fertility is underlined, it is stated, by the fact that in Western Canada "we are still thinking in terms of virgin soil, and in many instances land which has been cropped for 20 years is regarded as worn out!" Copies of the book can be secured from District Agriculturists or Experimental Stations.

New Publications

New publications received from the Department of Agriculture at Ottawa include: Report of the Directors of Science Service; Swine Production; A Study of the Dressed Hog; and the Annual Report of the Director of Experimental Farms Service. Copies can be obtained from the Queen's Printer, at Ottawa.

"Building Free World Through Co-operatives" Is Slogan

Further Comment on Ottawa Congress

By NORMAN F. PRIESTLEY

IT IS understandable that a national body such as the Co-operative Union of Canada could spend most of its time in annual meetings reviewing the achievements of the previous year and going into detailed comparison of the plans of its member units for the period ahead. That, however, was not so at the three-day meeting of the Forty-third Congress at Ottawa.

Some Important Features

Provision was amply made for review, (as was pointed out in my story in the last issue of the Western Farm Leader) when J. E. O'Meara presented his statistical analysis and summary of facts concerning co-operatives in Canada gathered by the Economics Division at Ottawa in 1951. There were also excellent and comprehensive reports of A. B. MacDonald, National Secretary, and Bruce Melvin, Research Secretary. On the afternoon of the final day, Friday March 7th, a report was given of the annual meeting of Provincial Secretaries held in Ottawa on the preceding Monday, their individual written reports having been assembled and placed earlier before the delegates. Reports were presented from the Co-operative Fisheries Conference and from the meeting of Co-operative Accountants, Auditors and Counsel. The annual report of the Co-operative Development Foundation was also dealt with.

On Broad World Scale

Much is gained in a body composed of affiliates from the Provinces of Canada, with far-flung and diversified interests carried on by more than a thousand co-operative business organizations, by bringing into one focus even for a short time the ideas held and the methods in use to accomplish similar ends. We are proud to record, however, that while all these practical affairs find their true and proper emphasis in the sessions of Congress, the delegates eagerly follow the lead given by the national officers and board and match their thinking to the times on a broad world scale.

This year the slogan was: "Building Free World Citizens Through Co-operatives". The Ottawa Citizen paid tribute to this feature of the Congress editorially in the following words:

"The Congress, major organization of its kind in Canada, recognizes that the sheer grinding poverty of most of mankind is the greatest menace to peace and civilization today. Canadian co-operators, who have often built their organizations in conditions of great privation, should have particularly valuable contributions to make to the tasks of bettering human life . . . The co-operative way fosters adult education, democratic practices and social harmony. It is being encouraged by the governments of new nations like India, Pakistan and Ceylon. Canada could offer training in its techniques under the Colombo Plan, and Canadian co-operatives could give practical assistance."

Technical Aid to Underdeveloped Lands

As previously stated, the address of the Hon. L. B. Pearson, Minister of External Affairs, given to Congress on



NORMAN F. PRIESTLEY
Secretary, Alberta Co-operative Union

the afternoon of the first day, was on the subject: "Canada, and Technical Assistance to Underdeveloped Countries." Mr. Pearson's address was reported in part in the last issue of this paper, and his description of Canada's program of technical assistance is given elsewhere in this issue.

Mr. Pearson mentioned that three technical missions had come to Canada from India, Pakistan and Ceylon; and it was fitting that the program of the afternoon following the address of the Minister included short addresses from representatives of those three countries and one from Nigeria, as well as from Dr. H. H. Hannam, president of the Canadian Federation of Agriculture, all on some aspect of the drive for greater food production and higher living standards there. In closing, Mr. Pearson emphasized the basic need of greater food production

in South and South East Asia. I should like to stress his final words which will bear repetition until they have become impressed indelibly in the minds of all Canadians:

"Our participation in these programs of technical assistance offers us a two-way bridge of co-operation with the countries of Asia. That is why it is of such vital importance that they should succeed."

The limitations of space do not permit of any summary of the written address of Paul Comly French, Director of CARE, given in his absence due to sickness by his assistant Paul Wiley Gordon, save to point out that it was delivered at the annual banquet before some two hundred and forty people and carried the thought of Congress on the same high plane of world affairs; caring for the destitute peoples of Asia and Africa as well as of Europe, for which purpose this organization was originally formed.

National Secretary's Review

The review of the Congress of the International Alliance at Copenhagen, Denmark, held in September, 1951, given by A. B. MacDonald, National Secretary, contributed to the broad outlook of our Ottawa meeting. One reason, he said, why the theme, "Building Free World Citizens Through Co-operation", had been chosen was "to emotionalize our leaders to efforts of loftier endeavor. Spiritual growth and fullness of purpose will not be achieved unless the co-operative movement is dedicated to a higher cause than material gain."

Co-operative Life Insurance

Several projects of nation-wide nature received the attention of Congress. A report was presented by H. A. Crawford, President of Co-operative Life Insurance Company, which showed that since it was first launched in April, 1945, this new venture in the application of co-operative principles to business in Canada had been extended to cover every Province except Quebec and Newfoundland, and it was shortly to enter those Provinces.

The total insurance in force now exceeded \$35,000,000.00 and the assets were now well over a million dollars. Mr. Crawford announced, as we stated in the last issue, that the new Co-operative Fire and Casualty Company was now ready to commence business. The loans and guarantees required by the law, amounting in the aggregate to \$325,000.00, had been raised by co-ops and credit unions across the Dominion.

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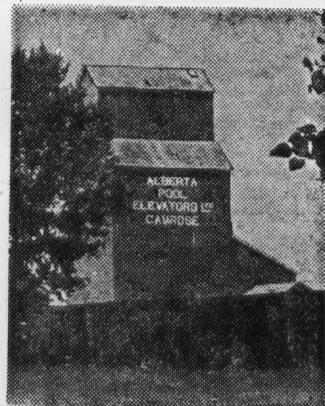
Department of Extension
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Edmonton, Alta.

National Co-op Credit Society

A detailed review of the steps taken progressively since 1947 towards the formation of a national co-operative credit society was presented by the national committee. Ted Kober of Regina, Chairman, stated that three

(Continued on Page 12)

STRENGTHENING AGRICULTURE



The Alberta Wheat Pool is more than a business enterprise, it is also an organization of some 50,000 Alberta farmers.

While the savings and protection offered by the elevator system of this farmer-owned co-operative are valuable, the fact that a large number of grain producers are united into a strong economic unit is of even greater importance.

Add your strength to this farm organization by patronizing Alberta Wheat Pool Elevators at every opportunity.

ALBERTA WHEAT POOL

TREATED SEED means GREATER PROFIT

It always pays to treat your seed grain and especially this year when grain has been exposed to the elements and may be low in vitality—subject to root rot and soil borne diseases.



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You can be sure of higher grades, bigger yields and more profit with Leytosan. Mercurial dressings are the only form of seed treatment effective with smut, root rot and increased germination of all grains.



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"Watch That Damp Grain Now," Is Warning Given

"Watch that damp grain now," warns Dr. F. J. Greaney, in a recent bulletin of Line Elevators Farm Service. When the grain shows signs of heating, it may be too late to prevent serious deterioration. Molds, he states, are at the root of all heating and spoiling problems in stored damp grain. The only effective spoilage control now known is to keep all bulk grain as dry as possible, so that molds can't grow.

Becomes Unevenly Distributed

During winter storage, moisture in damp grain becomes unevenly distributed. For instance, moisture usually accumulates near the cool outer walls of bins, and near the tops of bins. Turning from one bin to another will temporarily stop damp grain from heating; but for reasonable protection this moisture should be reduced to dry grade. If this is impossible, the damp grain should be marketed or used be-

WORLD CHRONICLE

March 19th. — British Labor Party M.P.'s adopt strict disciplinary measures. Communist press in London presses charges of germ warfare against UN in Korea. Canadian budget calls for record peacetime spending of \$4,335 millions (\$2,106 millions for defence).

March 20th. — Paris despatch says Eisenhower may return to U.S. to campaign for presidential nomination. Great Britain warns Spanish Government she may ask compensation for damage to Protestant church in Seville, by hooligans. Malan's "apartheid" racial segregation laws declared unconstitutional by S. African Supreme Court.

March 21st. — Centering on Arkansas, tornado sweeps southern states; (death toll reported 237). Malan says he'll seek legislation limiting powers of Supreme Court to rule on questions of constitutionality. Finns tide over government crisis on relief for inflation-poor workers. Ridgway asks Western world to be patient over Korean truce negotiations.

March 22nd. — Biological and chemical weapons may be used in third world war, declares Dr. O. M. Solandt, Canadian military scientist; says Canada is preparing to meet such attack and, "if necessary retaliate"; Canada is also building guided "air-to-air" missile.

March 23rd. — Prisoner exchange talks put on semi-confidential basis, in Korea.

March 24th. — Truce negotiators near agreement on ports of entry question. Malan announces voters will rule on rights of Supreme Court over legislation; many meetings protest disregard of ruling on apartheid law. Two of a group of Canadian missionaries, returning from China, praise new regime; third declares many are committing suicide in Chengtu, where anti-corruption campaign is being carried on. U.S. is rightly "first among equals" in NATO, declares Pearson, but all partners must exercise restraint and tolerance. Farouk dissolves Egyptian parliament, calls new election for May 18th. French Government plans to meet defence costs by cutting other government spending, and to forgive huge totals of unpaid taxes.

March 25th. — Britain, U.S., France, replying to Russian note, suggest free elections in East Germany as preliminary to four-power peace talks; also reject Russian proposal to allow united Germany to have army, navy and air force. All-out military clash between Russia and the West not likely, declares Sir Gladwyn Jebb, British delegate to UN; but believes "cold war" likely to continue for long time. Canada plans to have fifty warships available for Atlantic service by 1954, states Vice-Admiral E. R. Main- gey. South Africa will soon begin to extract uranium from gold mine slag

fore warm weather. An important factor in spoilage of damp grain is the temperature within the grain bulk itself. It has been found that grain containing 16 to 18 per cent moisture can be kept for good condition for months at 40 to 60 degrees F. But at 70 degrees it will become musty in a couple of weeks, and completely spoiled within a month. Dr. Greaney suggests the advisability of storing damp grain in bins on the north side of granaries or elevators.



SIR JOHN
COCKROFT

heaps, reported from London. Canada has tentatively agreed to make air survey of Pakistan resources, reported from Ottawa.

March 26th. — Russia rejects U.S. suggestion that germ warfare charges be investigated by Red Cross; says Red Cross International committee is merely Swiss. "Sailor" Malan leads deputations to protest apartheid policy in S. Africa; Prime Minister Malan refuses to see them. Munsan negotiators agree on ports of entry, and on secondary details for supervising armistice; can't agree on neutral nations to do supervising. Following demands for self-government in Tunisia, French Government imposes martial law, arrests four Tunisian cabinet ministers.

March 27th. — Poland again demands restoration of art treasures, now held by Duplessis Government, in Quebec. Mossadegh says Iran is dropping request for financial help from U.S.

March 28th. — French industrialist proposes series of international cities, to be built by UN on land donated by member countries; submits plan to Trygve Lie. Denmark revives death punishment for "gross crimes" committed during war or during enemy occupation. Canadian destroyer Cayuga takes part in attack on Korean west coast.

March 29th. — Truman announces decision not to run for President again. Madrid reports Franco is planning to set up autonomous government in Spanish Morocco. London papers say prospects for interchange of atomic information improved by recent visit of Sir John Cockcroft to U.S. Stalin appears at final sessions Supreme Soviet, halting rumors of serious illness.

March 30th. — Anti-French demonstrators riot in Tangier, on 40th anniversary of French rule over neighboring French Morocco. In protest against administration's steel price policy, C. E. Wilson resigns as U.S. mobilization director.

March 31st. — Guatemala won't accept B.C. Doukhobors as immigrants. Communist propose top-level negotiators meet for first time in two months, to attempt to break deadlock over Korean truce supervision. In Tehran, rioters attempt to raid U.S. information service library; believed in retaliation for police closing of nearby centre for Communist-front youth group. New crown company to

Bull Sale April 14 - 17

Encouraged by favorable developments of the past few weeks in the control of foot-and-mouth disease in Saskatchewan, directors of the Alberta Cattle Breeders' Association have decided to hold the Calgary Spring Bull Sale on April 14th to 17th. Entries have been reduced to about 1,000 bulls. An encouraging sale is looked forward to by President W. D. McDonald and Manager Maurice Hartnett, allowance being made for prevailing handicaps. The date was decided on by the co-operation of the Alberta Horse Breeders' Association, who made way for the Bull Sale by postponing the Calgary Spring Horse Show to April 23rd to 26th, with the Horse Sale on April 29th and 30th. The Swine Show and Sale, which was to have been held April 4th, has been postponed.

take charge of Chalk River operations, under Dr. C. J. MacKenzie, announced in Ottawa.

April 1st. — Churchill states U.K. will not oppose appointment of U.S. general to replace Eisenhower, who is expected to resign soon to enter U.S. presidential campaign. New Atom tests made in Nevada. Lord Boyd-Orr leaves with business group to attend world economic conference in Moscow.

April 2nd. — Heaviest ground fighting in weeks breaks out in Korea; North Korean attack repulsed. Ratification Schuman plan for coal reported from Paris.

There are 84,315 farms in Alberta, according to the 1951 census.

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A.F.A. NOTES

By JAMES R. McFALL, Secretary

Farmers Meet the Cabinet — Copies of the C.F.A. annual submission to the Federal Cabinet which was made on March 6th are now available.

This submission, printed in booklet form, is really a report that sets the policies of Canadian farmers as co-ordinated through our national body, the C.F.A. Copies can be secured on request from the Alberta Federation of Agriculture office at Calgary.

Marketing Legislation — On March 19th Mr. Marler, President of the Alberta Federation of Agriculture, and other Federation representatives, met with the members of the Alberta Legislature for a full discussion on marketing legislation.

The statements presented at this time outlined the need and requirements for provincial marketing legislation that would permit any marketing board set up to function with other provincial boards in inter-provincial trade under the National Marketing Act.

Oil Exploration Work and Road Damage — Through a resolution passed at our annual meeting a complaint was laid regarding damage to roads by oil exploration crews.

On presenting this problem to the Provincial Cabinet the Minister of Lands and Forests admitted that there was a problem in this regard and action was being taken to prevent further difficulty.

On January 28th, 1952, an order-in-council was passed laying down regulations regarding this exploratory work. They are such that every operator must have a license or permit, that he must report all activities to local Municipal Secretaries, giving location of test holes and other information. The operator must leave the surface of land as nearly as possible as it was found and must repair all damages caused.

There are many other points within these regulations, but the point is that the operator is under license and he must repair all damage or be subject to penalty and/or cancellation. The regulations are such that damage can now be traced directly to the operator responsible through the Municipal office.

Farm Forum Committee Meets — The Alberta Farm Forum committee held its regular spring meeting at the Federation office, Edmonton, on March 31st.

The full committee, which includes Mrs. R. B. Gunn of Lloydminster; Mr. Glenn Smiley, of Lavo; Mr. Bill Yorgason, of Claresholm, and Miss Muriel Bauer of Lacombe, was present. Mrs. Gunn acts as Chairman and is appointed by the Federation of Agriculture. The other members are chosen by forum groups from their respective areas.

Miss Bauer's appointment was only made on March 24th, when groups in the Lacombe area held a rally for the purpose of electing a committee member.

The business considered at this meeting included a survey of the winter's activities and plans for the summer months which usually include a number of summer picnics.

Foot-and-Mouth Disease — Following up previous action on this question, Mr. Marler as President of the Western Conference called a meeting of Federation livestock representatives of four Western Provinces. This meeting was held in Saskatoon on March 26th.

The only report released was that a delegation would be sent to Ottawa to interview officials and that full details of conclusions reached would be made available at that time.

Using Latest Weapon in War Against Cancer

SASKATOON, Sask. — The latest weapon in the atomic war against cancer is now being used in this Province. The first radioactive cobalt beam therapy unit to be installed anywhere in the world is now in service in the University Hospital in this city. It is expected to offer advantages in the treatment of deep-seated cancer.

It was arranged that a delegation of which Mr. Marler is chairman would proceed to Ottawa to present the views of the Conference members to the Cabinet on March 31st. News of this meeting at Ottawa may be received before this issue goes to press, in which case it will be printed in another column.

Meetings in Calgary — The Board of Directors of the A.F.A. will meet in Calgary today, Friday, April 4th, following a meeting in April 3rd of the committee which deals with our radio program, "On the Farm Front."

CO-OP WOOL GROWERS

(Continued from Page 1)

trade journals at a high pitch, the co-operative wool sales for 1951 reached the highest dollar level of any year in the history of the company, with wool settlement prices to members, as stated, at correspondingly higher levels than ever before.

It was noted that peak prices were reached early in the season, but that they started to fall off in April and continued to decline until September, at which time prices moved up smartly from the extreme lows, only to react again in October and succeeding months, with prices eventually reaching an average level to that which ruled at the opening of the 1950 season.

Under a forward - selling policy, the company made contracts early in the season with regular mill customers as far as sound business would permit under prevailing markets, with the result that selling averages and prices received for the clip would be viewed with satisfaction.

Dividend 4c a Pound

The year's surplus was big enough to justify the directors in suggesting that a Patronage Dividend of approximately 4 cents a pound will be included in Final Settlement Cheques on 1952 consignments.

"As to the future," the report said, with the adjustments that have taken place in wool values, it is difficult to foresee any further real wool-trade slump while the world is committed to a rearmament policy and many basic industries are working at full capacity. The industry has survived the violent price-adjustment, and while it is disappointing that the lower levels do not bring out more business, it is believed that wool values now are at a level where wool can be used to advantage once business gets under way again."

On Upward Trend

Directors and delegates from all parts of Canada reported on conditions in their respective areas and commended the company management for the services rendered under difficulties. They also indicated their faith that the sheep industry is on an upward trend.

John Wilsoh, Jr., of Innisfail, Alta., was re-elected President and Geo. C. Hay of Kamloops, B.C., as Vice-President. Directors are the same as last year except that Everett Mark of Little Britain, Ont., succeeds the late James A. Telfer.

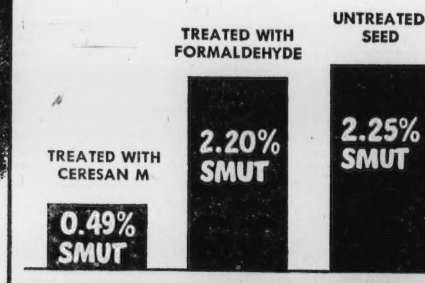
Ends Long Service in Red Cross Work

Actively associated with Red Cross work in Alberta since 1914, when she became Provincial Secretary, Miss Mary E. Pinkham, O.B.E., recently resigned the post of Honorary Treasurer.

Farm Survey Shows CERESAN M gives best protection AGAINST SMUT

Results of a three-year Government survey in Manitoba of actual farm seed-treating methods for smut control in barley and oat crops prove . . .

- 1 CERESAN M is the most effective seed disinfectant. This includes mercurials as well as other types.
- 2 Such disinfectants as formaldehyde and bluestone are not only ineffective, but may actually injure the seed.



CUTS SMUT PERCENTAGE TO 1/2 OF 1%

In 166 fields sown with CERESAN-treated seed, the mean percentage of smut was 0.49% (less than 1/2 of 1%). In 103 fields sown with formaldehyde-treated seed, the mean percentage of smut was 2.20%—in check plots sown with untreated seed, the percentage was 2.25%.

STORAGE DOES NOT INJURE SEED TREATED WITH CERESAN M—Bluestone or formaldehyde-treated seed must be sown in a day or less after treatment. But normal, well cured seed treated with CERESAN M can be stored with no risk of injury, and control is even more effective if CERESAN M is applied 4 or more days before seeding.

MACHINE TREATING BEST—Methods of applying seed disinfectant are also of prime importance. In fields sown with seed treated with a shovel or loading auger, the investigators found considerably more smut than in those sown with machine-treated seed. Canadian Industries Limited recommend the use of a Kemp Seed Treater—especially designed to treat seed grain with CERESAN M.

CERESAN M

is a COMPLETE Seed Disinfectant

CERESAN M not only protects against smut. It is a complete mercurial disinfectant which protects all grain against BOTH smuts and such soil-borne diseases as rots and blights . . . improves germination as much as 14%. CANADIAN INDUSTRIES LIMITED, Agricultural Chemicals Department, Winnipeg, Saskatoon, Edmonton, Halifax, Montreal, Toronto, Chatham, Ont.



For complete protection of all grain and

flax, treat your seed with CERESAN M

SEED DISINFECTANTS



"Petwa" Gravity Water Softeners

For Homes Without Running Water

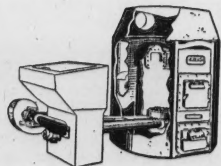
It is no longer necessary to have a pressure water system to save with a water softener! Pure healthful soft water as used in hospitals and canneries. Pays for itself in soap savings alone. Send pint sample of water for free analysis. Write today!

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CALGARY, ALBERTA
Manufacturers All Types Pressure Equipment

SHOW CANADIAN ARTISTS' WORK

A display of work by Canadian artists, in the U.F.A. Hall during the week of May 15th, was one of several undertakings launched by Alix F.W. U.A. at their March meeting, reports Mrs. H. M. Parly, secretary. And to raise funds for repairing the hall, and for other current expenses, the members planned a tea and bake sale to be held on April 12th.

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Guaranteed Gas and Dust Tight.
Burns Slack Coal — Savings in fuel costs alone will soon pay for one.

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With prompt orders we will include at no extra cost 3 TUBEROSES. Bloom into tall waxy white flowers 2-3 ft. tall, extremely fragrant.



FARM WOMEN'S INTERESTS

Including News of The Farm Women's Union of Alberta

SPRING AND A CALL ON A NEIGHBOR

Dear Farm Women:

When you read this it may be a genuine "Spring" day, or it may happen to be one of the lapses which so often occur at this season. In any case, Spring is here according to the calendar.

Probably more glowing tribute has been paid this season of the year than to any other. Its present pleasures and its hopes for the future have been told and re-told. Of course, these have been countered by the very matter-of-fact, who refer rather wearily to the work of Spring cleaning, and to the mud and the dirt or some other discomfort.

The Work Outside

On the farms, special emphasis is laid on the work outside. It may be the getting the hens started on their maternal duties, although in this day and age many rely on the hatchery for the first part of the work with the poultry. It may be the lambing season for some, with a possible "bottled" one, or the work with the young calves which takes extra time for some.

The greatest work is of course the preparing the seed and preparing the land ready for it, and getting the crop whatever, nature it might be in its bed. A great deal of the work has been shortened in this mechanical age, but fewer are needed at the work. Whatever that work may be, there will probably be some days which seem drudgery, some days when the season is a matter of in-

Comox, B.C.

difference, but there can hardly fail to be some with a rising of spirits with the thought and the spectacle of the re-birth of Nature and the plans for the future.

Rapid Changes "Peoples" Can Make

Sometimes I stop to think if I have seen or done anything of interest since I last wrote you. I think this time what interested me was the thought of the rapid changes people, or shall I say "peoples" can make. I called on the wife of the Indian chief in a small reserve near here. (That to some may bring a half-thought of a home not very modern, to say the least.) She showed me over her spotless, shining house. As I told her, I should be very pleased to have her come and call on me unexpectedly, but I would have reservations as to the parts I would show her. I might interject here that those who know me well will quite understand why.

Two men came when I was there to remove my hostess's saw-dust-burning stove and install an electric one in its place. I might say the men from these homes go up north fishing when the season opens, and that makes for their financial standing. But this home with its upholstered furniture, with such a profusion of crocheted lace to cover it, certainly was far removed from the home of her people of only a few years ago.

Negroes Make Tremendous Strides

And I picked up a paper the next day with an extract from a Negro paper in the States. Everyone knows that the Negroes have had and are continuing to have to make tremendous endeavors to get anything like what we call a square deal in comparison to that dealt those of us who have a whiter skin. I was agreeably surprised, therefore, to note some statistics of their accomplishments despite their handicap. As the paper commented, "There has been amazing and unprecedented adjustment within the memory of living men." The number of negro students graduating annually from universities, the number who own their own homes, the number of Negro newspapers, etc. was pleasing to read.

Given opportunity, it would seem that the possibilities of the branches of the human race are indeed marvellous. It would also seem that no one portion has a monopoly of these possibilities, although at times it would appear that some seem to think they have the monopoly, or at least the major share.

Yours sincerely,

H. ZELLA SPENCER.

News of Women's Locals

Two social evenings were sponsored recently by West High River F.W.U.A., reports Mrs. A. E. Laycraft.

A demonstration on "Finishing Touches", by Miss Reed, was arranged recently by Durness F.W.U.A., writes Mrs. R. L. Robertson.

Hillock F.W.U.A. (Innisfree) recently invited the district home economist to give them a talk on aluminum ware and kindred topics.

Mrs. Jas. Davison, secretary, writes that Fairdonian Valley F.W.U.A. have furnished a rest room in the new community hall (Memorial) in Sedgewick.

Vegreville F.W.U.A. donated \$25 to the Red Cross, reports Mrs. Wm. Zieg-

The Western Farm Leader PATTERN DEPARTMENT



R4656
SIZES
10-16

The scallops add the final touch of flattery to this bouffant-skirted party frock, which comes in sizes 12, 14 and 16 years. For size 12, 4½ yards of 35-inch fabric are needed.

Price of pattern 35 cents.

ler. Mrs. E. Cunningham was chosen to represent the Local in the Canadian Association of Consumers.

Vice-President James Jackson was guest speaker at a public meeting sponsored recently by Ranfurly F.W.U.A. Mrs. Wagar, secretary, writes that there was a good attendance.

W. C. Barrele, of the Co-ordinating Council for Crippled Children, was invited to be guest speaker at the supper meeting arranged by Namoo F.W.U.A. for April 1st, writes Mrs. H. Bailey, secretary.

Stony Plain F.W.U.A. recently arranged the last of their series of winter whist drives. At the same meeting, a Red Cross working group was formed, writes Mrs. T. Washburn, the secretary.

Mrs. H. S. Peterson, who has been a member of Viking South F.W.U.A. since it began in 1930, and who is now leaving the district, was honored by a presentation at a recent meeting.

Co-operation was the subject of a lively discussion at a meeting of Rosyth F.W.U.A. recently, writes the secretary, Mrs. M. R. Burpee. Following the meeting, F.W.U.A. members joined the women for cards and lunch.

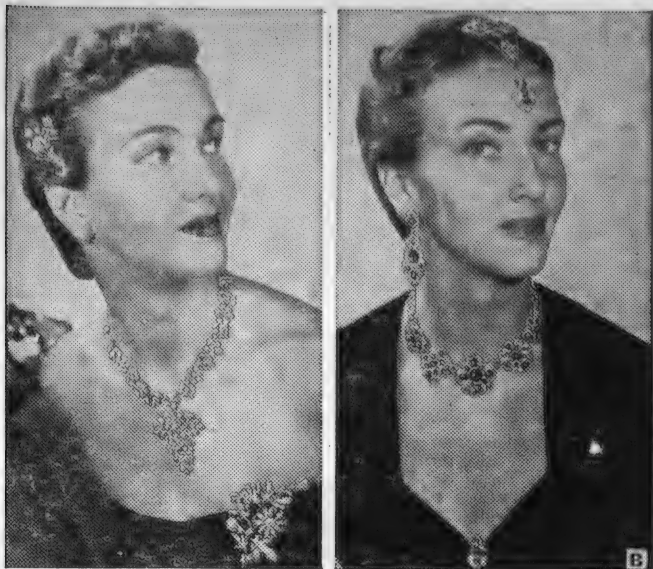
(Continued on Next Page)

STABBING HIP PAINS

Does your hip feel as if packed with broken glass? Or as if a knife were being twisted in it? Don't suffer needlessly from these stabbing pains. Get fast relief with T-R-C's. Used successfully by thousands for quick relief of Sciatic, Rheumatic or Neuritic pain. Also Lumbago, Neuralgia. Ask for Templeton's T-R-C's, 65c, \$1.35 at drug counters.

T-938

Costume Jewels Have Million Dollar Look



A housewife — and obviously one of London's prettiest — 25-year-old Mrs. Carol Anderson models some of the costume jewelry which will be on display amongst the expensive creations in the "Millionaires' Row," the display of British custom jewellers, of this year's British Industries Fair (May 5th-16th) in London. Left: Silver-set necklace, hair ornament and brooch. Right: Oriental motif in gold-set garnets. Hair ornament, earrings and necklace are completed with a small clip at the centre of the neckline. Precious-gem craftsmen's skill has gone into the creations which are claimed detectable only by experts.

FARM HOME & GARDEN

Rhubarb Plants: need feeding. When they first show up in the spring, dig in manure around each plant. Knock the ends out of boxes or barrels and set around a few plants to "draw" up the stalks for early use.

Freshen Rubber Boots: By washing and drying thoroughly, then applying a coat of liquid floor wax.

Lettuce Plants: Should be given plenty of room if you want heads. Openheaded varieties should be spaced 6 to 8 inches apart in the rows, and head lettuce 10 to 12 inches. Lettuce will stand several degrees of frost, and seeds should be planted as soon as the ground can be worked.

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Pickled Eggs: Are fine for your emergency shelf. Cover eggs with cold water, bring to boil, and set back, covered, for 20 minutes. Plunge into cold water. When quite cold, remove shells and place carefully in hot sterilized jars. Have ready white vinegar, brought to boiling point, with an ounce of pickling spice to each quart and a rounded teaspoon each of salt and sugar. Pour over eggs, and seal jars. In a couple of days the eggs will be appetizingly

Little Folks' Puzzle



Carol is trying to coax this sweet singer to come to her but he is very shy. Join all the numbered dots together, starting with dot number one and ending with dot number thirty-one and you will have the picture of this songster. Color when finished.

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pickled, but they will keep as long as three months.

Angel Cake: Measure 1 cup egg whites, and beat until frothy; add 1 tsp. cream of tartar and ¼ tsp. salt, and beat until stiff. Gradually beat in 1¼ cups fine granulated sugar; then fold in 1 cup sifted cake or pastry flour; lastly add 1 tsp. flavoring. Bake in ungreased tube pan in 300 degree oven, for 1 hour. (Egg yolks can be used for custards, gold cake, salad dressing, etc.)

NEWS OF WOMEN'S LOCALS (Continued from Page 11)

Mrs. L. Meyers, who read the bulletin on horticulture, also distributed written questions on gardening experiences, at a recent meeting of Clover Bar F.W.U.A. The replies, and comments on the bulletin, made a very interesting discussion, reports Mrs. G. Clark.

Discussions at a recent meeting of Inland F.W.U.A., writes the secretary, Mrs. N. Sakordonski, centred around such topics as "How can children be taught to co-operate in the home?" and "Best ways of keeping up with national and international affairs".

Some rather unusual ideas were presented in response to the roll call (Help your neighbor), writes Mrs. W. J. Edmunds, reporting a recent meeting of Royce F.W.U.A. (Hines Creek). It was decided to exchange books with the teacher of the junior room, book for book, donating any balance to the school library.

Starting of an organization scrap book was decided on by St. Albert F.W.U.A. recently. The same meeting was concluded by a joint meeting with the men's Local, when Mrs. J. Harrold gave a most interesting report on the Montana State School which she attended during the winter. "She certainly made clear the desirability of a leadership school for our Alberta Farmers' Union," com-

ments the secretary, Mrs. J. R. Atkinson.

Late Dug Potatoes Should Make Good Seed

LETHBRIDGE, Alta. — Late dug potatoes should make good seed, states I. L. Nonnecke of the Lethbridge Experimental Farm. In fact, tests carried on recently showed that the most vigorous, stoutest sprouts were from those potatoes that had been dug during or after cold weather set in last fall. However, Mr. Nonnecke recommends that stocks be picked over at frequent intervals to remove any potatoes which are breaking down due to frost damage.

S. ALWYN BARTLETT

George A. Bartlett

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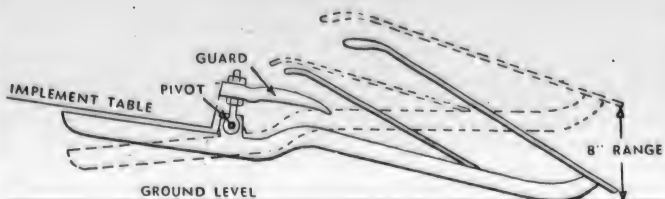
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The need is prevalent for these underslung flexible grain pick-up guards that have been tested and proven under most extreme conditions of flattened grains and rough ground.

Picks up grain cleaner and faster than any other device known and can be fitted to all makes of combines, swathers or binders. These guards are precision made, 34 inches long and need spacing 12 to 15 inches apart on the cutting bar.

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Weight of pigs at commencement of test, 55 lbs. Length of test, 5 weeks. Number of pigs in each lot, 12. Daily average gain:
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Rate of feeding Aurofac, 5 lbs. per ton of feed.

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The Wheat Situation

By E. PATCHING, Publicity Dept.,
Alberta Wheat Pool

Our greatest concern in the wheat world today is the opening of the negotiations towards the renewal of the International Wheat Agreements. Preliminary discussions will start in London, England, on April 17th.

The present agreement expires on July 31st, 1953. At the present time some 42 importing countries and 4 exporting countries are signatories to the agreement, which provides for a total trade of 580 million bushels.

The exporting nations have the following quotas:

| | |
|---------------------|---------------------|
| United States | 255,149,000 bushels |
| Canada | 232,979,000 bushels |
| Australia | 88,700,000 bushels |
| France | 4,089,000 bushels |

Meeting in Regina

Representatives of Western farm organizations meeting in Regina reached an agreement on a number of suggestions concerning the renewal of the pact. In the first place, they asked for an increased price range, with a minimum figure of \$1.80 and a maximum of \$2.35, such to be for 1 Northern wheat at Fort William. Other important recommendations: that the price be subject to change from year to year in accordance with changes in the general price level; that the price of wheat sold on the domestic market be not based on International Wheat Agreement prices.

United States wheat farmers appear to want a renewal of the agreement, but representatives from ten of the most important wheat producing states in that country have asked that the ceiling price be \$2.50 a bushel. U.S. farmers also want wheat prices under the agreement to vary in relation to the general price level.

While both the Canadian and United States governments are sure to press for higher prices, in accordance with the desires of their farmers, there will certainly be opposition to such an idea on the part of the wheat importing nations. Dollar scarcity continues to plague Europe and particularly Great Britain.

The Delayed Harvesting

In Western Canada the big concern is the possibility of completing harvesting that portion of the 1951 crop which has been lying in the fields over winter. The Wheat Board urges farmers not to harvest any grain in tough or damp condition.

About 190 million bushels of tough and damp wheat have already been delivered; another 60 million is estimated to be in farmers' bins, giving a total of 250 million bushels of out-of-condition grain. The drying capacity of the terminal elevators is only 3½ million bushels a week. About 60 million bushels of wheat have been dried to date. With these facts in mind, farmers should do their best to see that the grain harvested this spring is in a dry condition.

It is estimated that Alberta alone has 56 million bushels of wheat to harvest and 71 million bushels of oats and barley.

CO-OP CONGRESS (Continued from Page 7)

outstanding constitutional lawyers had been engaged by the Saskatchewan Government to examine and report on the validity of the legislation proposed, and that these authorities, working independently, had agreed that the bill drawn up was within the jurisdiction of Parliament.

A resolution presented by the committee with respect to future action was debated at some length and with much vigor. It was clear that many delegates were impatient at delay. Others indicated that some credit unionists in the Provinces still retained doubts in the matter. After re-drafting, the resolution was passed with few dissenting.

It calls for a request to be first

Livestock Market Review

CALGARY STOCKYARDS, April 2nd. — Yesterday's receipts of 35 cattle sold readily at strong prices: extremely light receipts partially due to road bans. Monday's quotations are as follows: good butcher steers \$24 to \$25, down to \$20 for common; good to choice heifers \$23 to \$24.50, down to \$19 for common; good to choice veal calves \$32 to \$37, down to \$25 for common; good cows \$18 to \$19; canners and cutters \$10 to \$15; good bulls \$18 to \$19, down to \$15 for common; Hogs, Grade A, \$23.75.

EDMONTON STOCKYARDS—March 31st. — The return of B.C. buyers to this market has given the auction an improved tone. Bulk of sales on good to choice steers is at from \$24.50 to \$26.50; medium to good heifers rate \$22 to \$24, and most of the good butcher cows range from \$17 to \$18.50. Good bologna bulls bring \$17 to \$18.50. These quotations are on lightweight cattle; over 1,100 lbs., cattle are discounted \$1 to as high as \$3.50, according to weight. Hogs closed last week at \$25.35 Grade A.

EDMONTON — Top price at the bull sale here last week was \$5,200, for the Hereford grand champion, Lavoy Tobruk Blanchard 10th. He was consigned by John Hottenuik of Lavoy and purchased by Mike Ilchuk of Vermilion. A total of 250 purebreds averaged about \$547.

EGG AND POULTRY MARKET

Effective on Monday, prices to producers are, for eggs: A large 34, medium 32, small 28; A large 30, medium 28, small 24; B 17; C 14, crax 12. Dressed chickens, over 5 lbs. are bringing 41 for special, 39 for A, 34 for B and 26 for C; 4 to 5 lbs., 39 down to 24; under 4 lbs., 35 down to 21. Dressed fowl, over 5 lbs., 27 down to 17; 4 to 5 lbs., 25 down to 15; and under 4 lbs., 22 down to 12.

THE DAIRY MARKET

A drop last week brought butter prints, wholesale, to 66 cents. Special cream is 66, No. 1 is 64, No. 2 is 55, and off-grade 49 cents.

made to the Saskatchewan Government to use the names and findings of the three eminent legal authorities in approaching the Federal Government and reference to be made to all Provincial Credit Union leagues, Credit Societies and Co-operative Unions as speedily as possible to secure their consent to place the bills before Parliament.

The length of this article forbids more than mention of the fact that steps were taken by Congress to incorporate the Co-operative Union of Canada, which involves the incorporation in the Provinces of the several member Unions; and the determination of Congress to give backing to the Co-operative Development Foundation formed two years ago.

It was agreed that the trustees of the Foundation should proceed immediately to undertake some project "in keeping with the Foundation's aims and its present resources", rather than to wait until the contributions received had accumulated into a large sum. Great regret was expressed at the passing last year of the first secretary of the Foundation, A. C. Savage.

A Notable Congress

It was a notable Congress, giving clear evidence of rising strength in the movement in all parts of Canada and of an increasing trend towards national unity in this field. The elections held on the final afternoon returned the following directors to office for the ensuing year: A. W. Friesen, Rosthern, Sask., President; J. T. MacDonald, Sidney, N.S., Vice - President; J. T. Stephenson, Fredericton, N.B., and J. J. Siemens, Altona, Man., all re-elected; new directors: A. H. Musgrave, Clarksburg, Ont.; Lewis O'Connor, New London, P.E.I.; N. F. Priestley, Calgary, Alta.; and J. T. Robertson, Ladner, B.C.

As Lifetime Milk Producer, She's Champion



Epworth Johanna Pietje (above) is Canada's leading lifetime producer of milk on Official Record of Performance test. In 12 lactations she has produced 200,063 lbs. of milk containing 6,934 lbs. of fat. Pietje is owned by G. A. McCullough, Navan, Ont., who maintains a small herd of purebred Holsteins normally milking around ten head. Only five other Canadian cows, all now dead, have ever exceeded the 200,000 lb. mark Mr. McCullough and Pietje were honored at a banquet arranged by the Carleton-Russell Holstein Club at Navan as she completed her latest yearly record of 21,443 lbs. milk and 734 lbs. fat. Despite her advanced age, (she was 16 last September) this was the largest yearly record she has yet made. As the picture indicates Pietje is remarkably fresh looking for her age. Nine of her records have been made on three times-a-day milking and three on twice-a-day milking. Mr. McCullough has milked her by hand throughout her lifetime.

THE HOW OF SANITATION (Continued from Page 3)

Because of the many factors and variables, and because of some possible inherent weaknesses in even the best of balanced cleaners, any good and proper cleaning program, or system, should embrace the alternate use of alkaline and acid type detergents mentioned above.

This means the regular and alternate use of properly balanced alkaline and properly balanced acid cleaners, with allowances made for varying water and soil conditions.

The objective is complete physical cleanliness of equipment at all times. The system is simply a

factual and chemical approach to the cleaning job. The results are quality production, savings in time and effort, and increased life and improved condition of equipment.

Training in Simple Principles

Here again appears the necessity for the training and education of those charged with the responsibility of maintaining clean dairy farm equipment. A working knowledge of the primary demands and functions inherent in chemical cleaning is essential in securing required and desired results. The training objective is not a deep exploration of the science of chemistry, but rather the establishing of an appreciation and working knowledge of how chemical cleaners function. The training should be basic in nature and is best accomplished by "down to earth" discussions and demonstrations.

Sanitation has suffered down through the years because of the misunderstanding and doubt existing in the minds of too many people as to just why and how such a thing is desirable and procurable. Sanitation achieved in the milk house usually finds its way into the kitchen of the farm home.

Sanitation as "Way of Life"

Sanitation, generally applied, becomes a Way of Life rather than regulations applied to some specific industry. The Egyptian proverb — "If every man clean his own door the world would soon be clean" will become a reality and mankind will profit as the result of his accomplishments.

Announcing Date of

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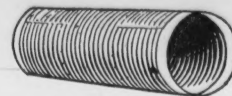
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Reduction of Duck Population Sought

Positive action to reduce substantially the duck population of the Province was called for in a strongly worded resolution adopted by Alberta Poultry Producers, Ltd., at its annual meeting in Calgary in February. It was urged that, as one means of reducing losses to farmers, the duck shooting be authorized in time to protect swathing and stooking of the early sown grain.

Milk starts its journey to the consumer at the dairy farm, regardless of the package it eventually occupies. It will be of inestimable benefit to the entire industry when the "Why" and "How" of quality milk production are better understood.

Disastrous Losses

A very strong case for action was presented by Jack Sutherland of Hanna, who pointed out that migration of ducks on their southward journey is normally concurrent with swathing and stooking, and that in the wide expanse of farming land in the Province on the migration route, losses of disastrous proportions were suffered by many farmers. No set date for the commencement of shooting should be provided, because conditions varied, but just before swathing and stooking, whenever that might be, was the right time to deal with the menace.

One delegate instanced losses which he himself had suffered the season before last, when a field which had promised to yield 40 bushels of wheat to the acre was cut to practically nothing by the depredations of ducks.

Out of 1,250,000 refugees in 14 countries in Europe, 260,000 have found asylum in Britain.

BABY CHICKS

Hambley Electric Chicks

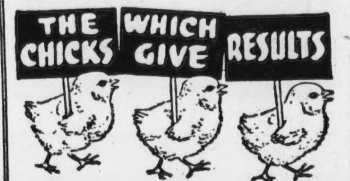


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| 22.00 11.50 | 5.75 Sussex | 23.00 12.00 6.00 |
| 37.00 19.00 | 9.75 LS Pull | 38.00 19.50 9.75 |
| 18.00 9.50 | 5.00 LS Ckl | 18.00 9.50 5.00 |
| 19.00 10.00 | 5.25 WLxNH Pull | 20.00 11.00 5.50 |
| 36.00 18.50 | 9.75 WLxNH Pull | 37.00 19.00 9.75 |
| 10.00 5.50 | 3.00 WLxNH Ckl | 10.00 5.50 3.00 |
| 22.00 11.50 | 5.75 NHxBR | 23.00 12.00 6.00 |
| 37.00 19.00 | 9.75 NHxBR Pull | 38.00 19.50 10.00 |
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pay," he added. Fare enough, we suppose.

Postcard from Nan of Nanton opines that a lot of mothers make hay while their son shines.

Nunno, Algernon, there is no truth in the rumor that the words of the marriage ceremony are to be altered to read: "Love, honor and no pay."

OH, VERY WELL

Many a guy has a bee in his bonnet because he has a honey on his mind.

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MUSTARD AND CRESS

By SYDNEY MAY

Hello Folks!

This being Leap Year, the Bad Egg of Crow's Nest says that gals have given up looking for an ideal man and are now concentrating on just snaring a husband.

That may be so, but as far as Wally, our incurable bach., is concerned, LEAP year means that he is still keeping one JUMP ahead which probably explains why Li'l Goldilocks, our office vamp, can't catch him on the hop.

The town of Bridlington, Eng., has made more than \$12,000 from waste paper in the last six months. They must have been collecting government forms.

HOW COLORFUL!

A beer hall for "middle-class Africans" has been opened in Bulawayo. This is what the prime minister of South Africa would call an "Aboriginal" idea.

OLD SOLDIER

He lifts his glass with feeble, quivering hand
And drinks his beer, there, in the Legion bar
He sits alone — and dreams of some far land
In which he sees himself again at war.
The work of war this old campaigner's known,
And quiet civilian years that never tore
Away his thoughts of someone's dying moan;
The khaki tunic stained with crimson gore.
Ah yes, to war he flung his youth away
To fight for right, to fight that war might cease.
Half blind and maimed he now awaits the day
When God will grant him undisputed peace.

— George Reis, Castor

stead of being a bed of roses life is likely to become a bed of neuroses.

And this year come June, many a tried-to-be will become a bride-to-be.

NOSTALGIA

O April days how poignantly you bring
Violets, daisies, cowslips, to my mind;
Elusive song of larks upon the wing,
Reaches of gorse and heather, Can I find
Such tender signs of Spring in this far West?
Ecstatic song of meadowlark — Ah! yes,
And glowing skies, true beauty manifest,
Stabbing the heart with vivid loveliness.
Renewal too, is here; in furry sheath
Entrancing purple crocuses appear;
And many wild flowers follow last beneath
Divinely azure skies — yet these, I fear,
Expel not from my heart its treasured store,
Remembered scenes and flowers I loved of yore.
— Elaine M. Catley, Calgary.

News item states that in Holland, the land of the bulbs and exotic flowers, a man has succeeded after years of experiments in producing — red brussels sprouts. So far he hasn't been charged with being a Communist.

And that reminds us that when they heard that four RED telephone kiosks were to be put up in the town's public gardens, members of the Halifax (Yorks) Development Committee, were so upset they asked the Post Office to paint the Kiosks GREEN. Just like the councillors, eh?

Smaller demand for false teeth is expected to save the Bolton, Eng., health executive \$150,000 this year. That should give the councillors something to chew the fat about.

Knotty Frankie opines that it would be easier to make both ends meet if circumstances didn't keep moving the ends.

NEWS FROM NORWAY

"The mountain grass tasted sweeter. After grazing and browsing delicately on the lower slopes, the bull calf moved to pastures new, high above the icy blue waters of the fiords

"Somehow he found himself at the top of a 40-foot-high start run of the Oeya ski-jump, near Fredrikstad.

"The young bovine sniffed the mountain air appreciatively. And then — Swish! He was off down the start-run on his tail piece.

"He took off from the jump, tail flying — and made a perfect landing unhurt."

That's a fast one, Ferdinand, but there doesn't seem to be any bull about it.

News dispatch states that 73 Japanese towns have voted to abolish their local police forces. Somebody should call a cop.

The railway authorities in Victoria, Australia, have received \$6 anonymously from a man who said he often rode on the trains without paying 40 years ago. "I still have \$15 to

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Two Useful Booklets

Recently issued by the Department of Agriculture at Ottawa are two useful booklets: "Manures, Fertilizers and Soil Amendments", 84 pages, and "Poultry Division, Central Experimental Farm, Ottawa, Progress Report 1937-1948", 72 pages. Both are illustrated.

Imitating the late Gertrude Stein's style, a New York columnist says of money today: "A dollar, is a dollar, is a quarter."

ISN'T IT THE TRUTH

Things are so tough these days, says Chuck of Chuckawalla, that in-

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SPRAYERS . . . BOOM - TYPE Versus Broad Nozzle Type

Confidence in chemical destruction of weeds has become general in recent years. To prevent any lessening of that confidence through the use of inefficient equipment, we submit the following comments.

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This statement is confirmed by the extensive research carried on by our agricultural scientists.

It was found that in order to apply small volumes of liquid per acre, the liquid must necessarily be broken up into very small particles in order to assure the most complete coverage. This being established as a fact, it should be borne in mind that spray droplet size must be very small if a small quantity of fluid is to be distributed in a close-knit pattern over a large area.

Small spray droplets cannot be ejected from a single spray nozzle to cover a reasonable swath or distance, due to the air resistance which increases as droplet sizes are reduced. It is therefore necessary to attach a series of nozzles along the length of a boom, spaced at equal intervals, so that small spray droplets can be uniformly applied in small volumes over large areas.

There is no practical substitute for the boom type sprayer for field crops work to date.

There are numerous reasons why a single spray nozzle is unable to duplicate the work of multiple spray nozzles. Small droplets cannot be ejected from a single nozzle satisfactorily to cover a range comparable to a series of spray nozzles. Therefore, single nozzle applications must resort to large droplet sprays to attain reasonably wide swaths. This in turn defeats the purpose of a close-knit pattern which is so obviously required where so little fluid is applied over so large an area.

It is also obvious that larger droplets greatly increase the volume of spray per acre (due to limitations which are evident in ejecting sprays). Sprays expended into the air are affected to a large extent by wind, which reduces the possibility of a constant spray pattern; and also there

are other hazards worthy of mention.

As it has been established that large droplets are required to attain carrying distance, it therefore follows that chemicals contained in the larger droplet will confine a greater acid concentration to a smaller area than if the same droplet were broken up into smaller particles and distributed over a larger area.

It is common knowledge that weed-killing chemicals are potent and therefore strong concentrations could feasibly cause crop damage. Such crop damage might possibly go unnoticed, but there is not much doubt that intermittent weed control results would be visually evident.

Intermittence of weed control could be expected, not only from the fact that large droplets will not give a close-knit pattern, but also because a large droplet does not cling in a plant in the way that smaller droplets do. Therefore, the larger droplet tends to fall to the ground, whereas, on the contrary, as the size of the droplets is reduced, the sticking area is increased. In other words, the area of a large droplet is much less than the total area of a large number of small droplets containing the same volume of liquid.

From the foregoing, it can be appreciated that the spray droplet size is associated very closely to:

- 1st, The Potency of Chemicals.
- 2nd, Close-knit Patterns.
- 3rd, Volume per Acre.

Speed of travel is the biggest factor in volume per acre; hence, if the speed of travel is increased to reduce the volume applied, per acre, the hazards of large droplet sprays would increase proportionately. This would be most obvious as the droplets would be of a fixed size and therefore speed increases would only enlarge the required close-knit pattern, and, of course, the acid content of each droplet would also increase.

In conclusion we do not recommend our roadside spraying attachments for field crop spraying work, as they are equipped with a conventional O.C. 20 (off centre) Broad Spraying Nozzle, which is intended for other than field work.

Don't use a coarse whisk broom for a job which requires a fine camel hair brush.

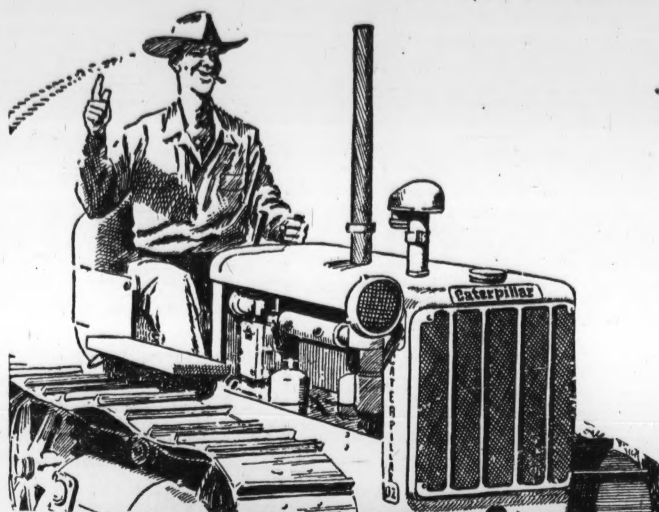
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